A Concise Total Synthesis of (±)-Asteriscunolide C

Rodney A. Fernandes,* Vijay P. Chavan
Department of Chemistry, Indian Institute of Technology Bombay, Powai, 400076 Mumbai, Maharashtra, India
Fax +91(22)25767152; E-mail: rfernand@chem.iitb.ac.in
Received: 19.02.2013; Accepted after revision: 06.03.2013

Abstract: A concise total synthesis of (±)-asteriscunolide C has been described involving an intramolecular Horner–Wittig–Emmons olefination and a late-stage ring-closing metathesis to construct the strained 11-membered ring with one Z- and two E-configured double bonds. The synthesis is executed in 14 steps and 9% overall yield.

Key words: asteriscunolides, macrocycle, esterification, ring-closing metathesis, total synthesis

This Letter has been retracted by the authors upon request of the Editorial Board for reasons of significant content overlap with a parallel submission to another journal.1 The Editorial Board recognizes that, had the submission to Chem. Commun. (submitted five weeks prior to this Synlett manuscript), been referenced and its contents disclosed, the striking similarities between the chiral (Chem. Commun.) and racemic (Synlett) syntheses would have been noted and the Synlett Letter would not have been accepted for publication.